
CHAPTER 8

DUMPING DATA RECORDS

DUMPING DATA RECORDS

The DUMP command is used to print a list of all the data records in an INTAC file. It is used most commonly for debugging purposes.

You may limit the items to be printed and do some limited formatting by printing items in any order. The items are printed under the column headings specified in the file definition. An option allows you to place an index value on a separate line before each record. A dump always prints all records, including records that have been marked for deletion (until they are erased from the file using the REBUILD facility TOTAL command).

Enter the Dump facility by giving the DU command at the INTAC COMMAND prompt.

```
COMMAND? DU
```

EXAMPLE: DUMP AN INTAC FILE

This example shows the simplest DU command for a file with four data items. All records are printed in the order in which they were entered into the file.

```
COMMAND? DU
```

```
DUMP AN INTAC FILE
```

```
FILE TO BE DUMPED? DEPT  
OUTPUT TO <KB:>?  
ITEMS TO PRINT <1;4>?
```

```
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```

```
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```

```
SEQUENTIAL DUMP OF DEPT.INT
```

DEPT NO	DEPT NAME	MANAGER	DIVISION
1001	ACCOUNTING	ALEXANDER	ADMINISTRATION
2001	PURCHASING	WILLIAMS	ADMINISTRATION
3001	PERSONNEL	WARREN	ADMINISTRATION
4001	EDUCATION	LANG	MARKETING
5001	ADVERTISING	POWERS	MARKETING
6001	SECURITY	NYSTRUM	ADMINISTRATION
6501	PLANNING	HOPE	EXECUTIVE
7001	RESEARCH	INTOIT	PROD DEVELOPMT
7501	PROF PROD	SCUDAMORE	PROD DEVELOPMT
8001	HOME PROD	MORRIS	PROD DEVELOPMT
8501	SALES	BRASH	SALES
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DU

THE DU DIALOGUE

The following questions are asked before the data is printed:

FILE TO BE DUMPED?

Enter the name of an INTAC file. An extension of .INT is assumed if none is given. Several optional switches allow limited formatting. They may be appended to the file name in any order:

- /NH to suppress printing of all headings and page breaks
- /Dc to specify a delimiting character c which will replace the normal space between items (This should be a unique character that does not occur in the data values)
- /In to display the value of Index n on a separate line before each record. Records will be dumped in the index order. (Index 0 is not valid here.)

INTAC returns with the question:

OUTPUT TO <KB:>?

There are three possible responses to this question.

1. Enter a carriage return to print the list at the terminal.
2. Enter LP: if you wish the list to be printed on the system line printer, or LPn: to use an alternative line printer, where n is the number of the line printer. On RSTS/E systems, these device names may be followed by any of the RSTS/E system QUE specifications for number of copies, etc. See the **Ross Systems 11/70 Users Guide** for details.

On VMS systems, these device names may be followed by any of the VMS system PRINT specifications. See the **Ross Systems VAX 11/780 Users Guide** for details.

3. Enter the name of a file if you wish the report to be printed to a file. If no extension is given, an extension of .DMP is assumed, and any existing file with that name is written over. This ASCII file can be used in the REBUILD AS facility if the /NH and /Dc options are specified in response to the previous question.

The next question allows you to enter a list of the data item numbers of the items you wish to print. The default shown will include from the first to last data item that you entered when creating the file:

ITEMS TO PRINT <1:n>?

Enter a carriage return if the default is appropriate. Otherwise enter a series of item numbers (separated by spaces) and/or ranges of item numbers (a range is indicated by a semicolon) that you wish to print. These item numbers may be in any order, allowing you to do some limited formatting.

EXAMPLE: ITEMS TO PRINT <1:9>? 1 3 5;7 9

In this example, items 1, 3, 5 through 7 and 9 will print on the dump report.

Recall that INTAC automatically adds three data items to your file at creation: RECORD NUMBER becomes item 0, DATE OF LAST EDIT and DELETE FLAG are placed at the end of the data items. In the example above, 9 data items were created by the user. The file actually has data items 0 through 11. These additional three items may also be printed in a dump report (see example in this chapter, page 8-5, under *Deleted Records*).

QUESTION MARKS

Occasionally, data item values will appear preceded by a question mark. The question mark occurs because the value takes up more room than allowed for by the data item print format, specified in the file definition. This error can be corrected by using the Modify facility to increase the print format.

EXAMPLES OF DU FLEXIBILITY

These examples show some of the flexibility of the DU command.

```
COMMAND? DU
DUMP AN INTAC FILE
FILE TO BE DUMPED? DEPT
OUTPUT TO <KB:>?
ITEMS TO PRINT <1;4>? 1;3
```

Only specified range of data items is printed

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SEQUENTIAL DUMP OF DEPT.INT

DEPT NO	DEPT NAME	MANAGER
1001	ACCOUNTING	ALEXANDER
2001	PURCHASING	WILLIAMS
3001	PERSONNEL	WARREN
4001	EDUCATION	LANG
5001	ADVERTISING	POWERS
6001	SECURITY	NYSTRUM
6501	PLANNING	HOPE
7001	RESEARCH	INTOIT
7501	PROF PROD	SCUDAMORE
8001	HOME PROD	MORRIS
8501	SALES	BRASH
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All records are dumped.

COMMAND? DU

DUMP AN INTAC FILE

FILE TO BE DUMPED? DEPT

OUTPUT TO <KB:>?

ITEMS TO PRINT <1;4>?4 1 3

all records are dumped in record number order; only specified items print in order of item list

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SEQUENTIAL DUMP OF DEPT.INT

DIVISION	DEPT NO	MANAGER
ADMINISTRATION	1001	ALEXANDER
ADMINISTRATION	2001	WILLIAMS
ADMINISTRATION	3001	WARREN
MARKETING	4001	LANG
MARKETING	5001	POWERS
ADMINISTRATION	6001	NYSTRUM
EXECUTIVE	6501	HOPE
PROD DEVELOPMT	7001	INTOIT
PROD DEVELOPMT	7501	SCUDAMORE
PROD DEVELOPMT	8001	MORRIS
SALES	8501	BRASH

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COMMAND? DU

DUMP AN INTAC FILE

FILE TO BE DUMPED? DEPT/I1

OUTPUT TO <KB:>?

ITEMS TO PRINT <1;4>?4 2

Only specified items are dumped in order of item list, with index 1 value printed on separate line

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SEQUENTIAL DUMP OF DEPT.INT

DIVISION	DEPT NAME
DEPT.NO= 1001	
ADMINISTRATION	ACCOUNTING
DEPT.NO= 2001	
ADMINISTRATION	PURCHASING
DEPT.NO= 3001	
ADMINISTRATION	PERSONNEL
DEPT.NO= 4001	
MARKETING	EDUCATION
DEPT.NO= 5001	
MARKETING	ADVERTISING
DEPT.NO= 6001	
ADMINISTRATION	SECURITY
DEPT.NO= 6501	
EXECUTIVE	PLANNING
DEPT.NO= 7001	
PROD DEVELOPMT	RESEARCH
DEPT.NO= 7501	
PROD DEVELOPMT	PROF PROD

DEPT.NO= 8001
 PROD DEVELOPMT HOME PROD
 DEPT.NO= 8501
 SALES SALES
 11 RECORDS DUMPED

DELETED RECORDS

When a record is deleted in the EDIT facility, it is not immediately removed from the file. INTAC marks it by changing the value of the DELETE FLAG to 255. The index is erased. Deleted records remain in a file until the REBUILD TOTAL facility is run to erase them and compress the file.

All records in a file, both active and deleted, will be printed in a dump report. To determine which records have been marked for deletion, print the DELETE FLAG data item on the dump report.

FILE TO BE DUMPED? DEPT
 OUTPUT TO <KB: >?
 ITEMS TO PRINT <1;4>? 0;6

RECORD NUMBER, DATE OF LAST EDIT, and DELETE FLAG are printed.

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SEQUENTIAL DUMP OF DEPT.INT

RECORD #	DEPT NO	DEPT NAME	MANAGER	DIVISION	DT LST ED	DEL
1	1001	ACCOUNTING	ALEXANDER	ADMINISTRATION	03/10/82	0
2	2001	PURCHASING	WILLIAMS	ADMINISTRATION	03/10/82	0
3	3001	PERSONNEL	WARREN	ADMINISTRATION	03/10/82	0
4	4001	EDUCATION	LANG	MARKETING	03/10/82	0
5	5001	ADVERTISING	POWERS	MARKETING	03/10/82	0
6	6001	SECURITY	NYSTRUM	ADMINISTRATION	03/10/82	0
7	6501	PLANNING	HOPE	EXECUTIVE	03/10/82	0
8	7001	RESEARCH	INTDIT	PROD DEVELOPMT	03/10/82	0
9	7501	PROF PROD	SCUDAMORE	PROD DEVELOPMT	03/10/82	0
10	8001	HOME PROD	MORRIS	PROD DEVELOPMT	03/10/82	255
11	8501	SALES	BRASH	SALES	03/10/82	0

11 RECORDS DUMPED

DU